CORRECTED VERSION

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 11 November 2004 (11.11.2004)

PCT

(10) International Publication Number WO 2004/096091 A1

(51) International Patent Classification⁷:

A61F 2/06

(21) International Application Number:

PCT/EP2004/004486

(22) International Filing Date: 28 April 2004 (28.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0309616.1

28 April 2003 (28.04.2003) GB

- (71) Applicant (for all designated States except US): AN-GIOMED GMBH & CO. MEDIZINTECHNIK KG [DE/DE]; Wachhausstrasse 6, 76227 Karlsruhe (DE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): DORN, Jürgen [DE/DE]; Küstriner Weg 2, 68809 Neulussheim (DE).
- (74) Agent: HOFFMANN-EITLE; Arabellastrasse 4, 81925 München (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- (48) Date of publication of this corrected version:

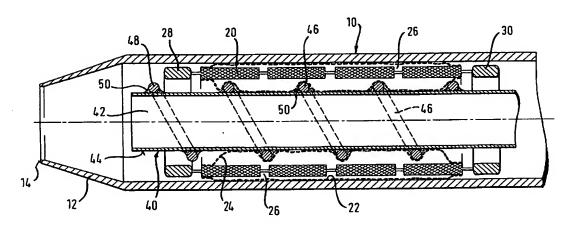
10 March 2005

(15) Information about Correction:

see PCT Gazette No. 10/2005 of 10 March 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LOADING AND DELIVERY OF SELF-EXPANDING STENTS



(57) Abstract: A covered self-expanding stent (20) can be restrained against axial movement with a pusher (40) within the lumen of the stent that carries a spiral of wire (48) that provides protrusions that are accommodated within a luminal covering layer (24) radially inside the stent body. The protrusions distribute the stress over the full length of the stent. The pusher can be removed from the stent lumen by "unscrewing" the spiral relative to the covering layer (24). When the stent expands, the pusher can be withdrawn proximally, out of the stent lumen, without any need for rotatory movement.

